Notice of Allowability	Application No.	Applicant(s)
	10/613,305	MOHR ET AL.
	Examiner	Art Unit
	Dang T Nguyen	2824
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included nwill be mailed in due course. <b>THIS</b>
1. This communication is responsive to 23 August 2004.		
2. The allowed claim(s) is/are <u>1 - 11, 13 - 51, and 53 -59</u> .		
3. $\square$ The drawings filed on <u>2 July 2003</u> are accepted by the Exa	aminer.	
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> <li>5. ☐ A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date  (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to 7. ☐ DEPOSIT OF and/or INFORMATION about the deponant attached Examiner's comment regarding REQUIREMENT</li> </ul>	e been received.  been received in Application No cuments have been received in this  of this communication to file a reply MENT of this application.  iitted. Note the attached EXAMINER es reason(s) why the oath or declarate be submitted.  son's Patent Drawing Review ( PTO  s Amendment / Comment or in the Co.	national stage application from the complying with the requirements.  I'S AMENDMENT or NOTICE OF ation is deficient.  In the front (not the back) of a d).  In the submitted. Note the
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date	6. Interview Summary Paper No./Mail Da 08), 7. Examiner's Amendo	te ment/Comment ent of Reasons for Allowance
	68 04 SUPERVISO	CHARD ELMS RY PATENT EXAMINER LOGY CENTER 2800

## Response to Amendment

1. This office action is in response to applicant's amendment received on 8/23/04. Claims 8, 51, 53, and 54 have been amended. Claims 12 and 52 have been canceled. New claims 55-59 have been added. Claims 1 - 11, 13 - 51, and 53 -59 are pending on this application.

## Allowable Subject Matter

- 2. Claims 1 11, 13 51, and 53 -59 are allowed.
- 3. The following is a statement of reasons for the indication of allowable subject matter:

With regard to claims 1, 20, and 33, the primary reason for indication of allowable subject matter is that the prior art fails to teach or suggest "redundancy driver select logic coupled to each of the redundancy comparison circuitry to activate a selected one of the redundancy comparison circuitry for comparing a portion of a memory address corresponding to a memory location with the programmed addresses of the respective programmable element blocks, the activation by the redundancy driver based on the memory block in which the memory location is located".

With regard to claim 8, the primary reason for indication of allowable subject matter is that the prior art fails to teach or suggest "redundancy driver select logic coupled to each redundancy driver of the bank of memory and having a plurality of NOR gates, each NOR gate having a different combination of a selection signal and its complement as input signals".

Application/Control Number: 10/613,305

Art Unit: 2824

With regard to claim 14, the primary reason for indication of allowable subject matter is that the prior art fails to teach or suggest "redundancy comparison selection circuit coupled to each of the redundancy comparison circuitry and having a control signal terminal to which at least one row address signal is applied, the redundancy comparison selection circuit generating an activation signal for activating one of the redundancy comparison circuitry in accordance with the row address signal".

With regard to claims 27 and 40, the primary reason for indication of allowable subject matter is that the prior art fails to teach or suggest "redundancy driver select logic coupled to each redundancy driver of the bank of memory the redundancy driver selecting a redundancy driver to activate in response to receiving a selection signal indicative of the memory block in which a memory location corresponding to the memory address is located".

With regard to claim 46, the primary reason for indication of allowable subject matter is that the prior art fails to teach or suggest "blocking the memory address from comparison with the programmed addresses of the programmable element blocks for non-selected redundancy planes".

With regard to claim 51, the primary reason for indication of allowable subject matter is that the prior art fails to teach or suggest "gating the column address for comparison with the programmed addresses of only the antifuse block identifying the memory locations of the memory block in which the memory location corresponding to the memory address is located; and blocking the column address from comparison with the programmed addresses of the antifuse blocks for the remaining redundancy planes".

Art Unit: 2824

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Blodgett (Pub. No.: US 2003/0174568 A1) discloses predetermined data values are written to selected row and column addresses corresponding to memory cells.

Manning et al. (Patent No.: US 6,301,146 B1) discloses a compare circuit includes a plurality of Exclusive NOR (XNOR) gates, which have inputs connected to outputs of readers via lines and column address lines.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## **Contact Information**

6. Any inquiry concerning this communication from the examiner should be directed to Dang Nguyen, who can be reached by telephone at (571) 272-1955. Normal contact times are M-F, 8:00 AM - 4:30 PM.

Upon an unsuccessful attempt to contact the examiner, the examiner's supervisor, Richard Elms, may be reached at (571) 272-1869.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist, whose telephone number is (703) 305-3900. The faxed phone number for organization where this application or proceeding is assigned is (703) 872-9306.

Application/Control Number: 10/613,305 Page 5

Art Unit: 2824

Information regarding the Status of an application may be obtained from the patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or EBC@uspto.gov.

Dang Nguyen 10/22/2004